

Amendments to the Claims

This listing of claim will replace all prior versions and listings of claim in the application.

1) (currently amended) A hand-held device for ~~enabling providing~~ communication between one or more devices connected to one or more a cellular network networks and one or more devices connected to a wireless local area network, comprising:

a) a first transceiver to communicate with the one or more devices connected to said one or more cellular network networks using by sending and receiving cellular signals, the first transceiver having a cellular network address;

b) a second transceiver to communicate with the one or more devices connected to the wireless local area network by sending and receiving using short-range radio signals;

c) a storage device; to store;

c.1. a router software component to transfer a plurality of data packets between the one or more devices connected to the one or more cellular networks and the one or more devices connected to the wireless local area network by the cellular signals and the short-range radio signals; and

c.2. an interface software component to add a first network service software component that provides one or more network services to the wireless local area network, the first network service software component loaded into the storage device from the one or more devices connected to the one or more cellular networks; and

d) ~~a processor coupled~~ one or more processors connected to the storage device to process the cellular signals and the short-range radio signals; and;

~~(e) — wherein the storage device stores a router software component for transferring to transfer a packet between the cellular network and the wireless local area network using the short-range radio signals and an interface software component to add a first network service software component that provides a network service to the wireless local area network;~~

~~— wherein the first network service software component is loaded into the storage device from a processing device coupled to the cellular network.~~

2) (currently amended) The hand-held device of claim 1, wherein the plurality of data packets includes packet is an Internet Protocol ("IP") packet.

3) (currently amended) The hand-held device of claim 1, wherein the ~~wide area~~ one or more cellular networks ~~network~~ includes a plurality of public IP addresses, wherein the cellular network address is included in the plurality of public IP addresses, and the wireless local area network includes a plurality of private IP addresses, and wherein the router software component translates a first IP address in the plurality of public IP addresses to a second IP address in the plurality of private IP addresses.

4) (cancelled)

5) (currently amended) The hand-held device of claim 1, wherein the one or more cellular networks ~~cellular network is coupled~~ is connected to the Internet.

6) (cancelled)

7) (currently amended) The hand-held device of claim 1, wherein the one or more cellular networks ~~are cellular network is coupled~~ connected to a corporate network.

8) (currently amended) The hand-held device of claim 1, wherein the one or more cellular networks ~~are cellular network is coupled~~ connected to a private IP network.

9) (currently amended) The hand-held device of claim 1, wherein the one or more wireless local area networks include a ~~wireless local area network is a~~ Bluetooth™ wireless local area network.

10) (currently amended) The hand-held device of claim 1, wherein the one or more wireless local area networks include ~~wireless local area network is a~~ 802.11 wireless local area network.

11) (currently amended) The hand-held device of claim 1, wherein the router software component includes a network address translator ("NAT") software component to translate between a ~~first wide area~~ the cellular network address and a first wireless local area network address.

12) (currently amended) The hand-held device of claim 1, wherein the router software component includes a network address port translation ("NAPT") software component to translate between a ~~first wide area~~ the cellular network address and a first wireless local area network address.

13) (previously presented) The hand-held device of claim 1, wherein the router software component includes a local routing software component to route an IP packet between a first wireless device in the wireless local area network and a second wireless device in the wireless local area network.

14-16) (cancelled)

17) (currently amended) The hand-held device of claim 1, wherein the first network service software component is a pairing management software component to determine whether a first wireless device, which is coupled connected to the wireless local area network, is responsive to a signal from the processing one or more devices device connected to the one or more cellular networks.

18) (previously presented) The hand-held device of claim 1, wherein the first network service software component is a virtual private network software component to establish a secure link.

19) (previously presented) The hand-held device of claim 1, wherein the first network service software component is a firewall software component.

20) (previously presented) The hand-held device of claim 1, wherein the first network service software component is a statistics software component to collect usage information of the wireless local area network.

21) (previously presented) The hand-held device of claim 20, wherein the statistics software component collects usage information of a first wireless device in the wireless local area network.

22) (previously presented) The hand-held device of claim 20, wherein the statistics software component collects usage information of an application software component in a first

wireless device in the wireless local area network.

23) (currently amended) The hand-held device of claim 1, wherein the first network service software component includes a link optimization software component to convert an IP packet included in the plurality of data packets from a first wireless device in the wireless local area network to an optimized cellular protocol packet.

24) (currently amended) The hand-held device of claim 1, wherein the first network service software component includes a reverse firewall software component to drop a packet included in the plurality of data packets from a first wireless device in the wireless local area network.

25) (currently amended) The hand-held device of claim 1, wherein the first network service software component includes a reverse firewall software component to drop a packet included in the plurality of data packets from a first application software component on a first wireless device in the wireless local area network.

26) (previously presented) The hand-held device of claim 1, wherein the first network service software component includes a flashing software component to provide a flash image to a first wireless device, in the wireless local area network, to update capability of the first wireless device.

27) (previously presented) The hand-held device of claim 1, wherein the first network service software component includes a flashing software component to provide a flash image to a first wireless device, in the wireless local area network, that repairs the first wireless device.

28) (previously presented) The hand-held device of claim 1, wherein the first network service software component includes a flashing software component to provide a flash image to a first wireless device, in the wireless local area network, to add capability of the first wireless device.

29) (previously presented) The hand-held device of claim 1, wherein the first network service software component is a message software component to provide a message between a first wireless device and a second wireless device in the wireless local area network.

30) (currently amended) The hand-held device of claim 1, wherein the first network

service software component is a service level enforcement software component to limit an amount of packets transferred from a first wireless device in the wireless local area network to the one or more cellular networks ~~cellular network~~ during a period of time.

31) (previously presented) The hand-held device of claim 1, wherein the first network service software component is a Bluetooth™ LAN Access Profile software component.

32) (previously presented) The hand-held device of claim 1, wherein the first network service software component is a Bluetooth™ Dial-Up Profile software component.

33) (previously presented) The hand-held device of claim 1, wherein the first network service software component is a Virtual Bluetooth™ Dial-Up Profile software component to provide packet switching in response to a circuit switching signal.

34) (currently amended) A system for ~~providing~~ enabling communication between one or more devices connected to one or more cellular networks ~~a wide area network~~ and one or more devices connected to a wireless local area network, comprising:

- a) a hand-held ~~wireless device having~~ comprising:
 - a.1. a ~~cellular first~~ transceiver to ~~communicate for communicating~~ communicate with the one or more devices connected to the wide area one or more cellular networks by sending and receiving cellular signals;
 - a.2. a second transceiver to communicate with the one or more devices connected to the wireless local area network by sending and receiving short-range signals; and
 - a.3. ~~and having~~ a storage device to store a ~~routing router~~ software component ~~that transfers to transfer~~ a plurality of packets between the one or more devices connected to the wide area network one or more cellular networks and the one or more devices connected to the wireless local area network using by the cellular signals and the short-range radio signals, and to store an interface software component to add a first network service software component that provides a one or more network services to the wireless local area network, ~~wherein the one or more network services including a first network service software component is loaded into the storage device from a processing the one or more devices device coupled~~ connected to the one or more cellular network, networks;

~~wherein the hand-held wireless device has a wide area network address;~~

b) a first wireless device having a short-range transceiver to transfer a first packet in the plurality of packets to the hand-held ~~wireless~~ device, wherein the first wireless device has a first wireless local area network address; and

c) a second wireless device having a short-range transceiver to transfer a second packet in the plurality of packets to the hand-held ~~wireless~~ device, wherein the second wireless device has a second wireless local area network address.

35) (currently amended) The system of claim 34, wherein the first wireless device is selected from a group consisting of a desktop computer, a laptop computer, a personal digital assistant, a headset, a pager, a printer, a watch, and a digital camera ~~and an equivalent~~.

36) (currently amended) The system of claim 34, wherein the hand-held ~~wireless~~ device is a cellular telephone using a Global System for Mobile communications ("GSM") protocol.

37) (currently amended) The system of claim 34, wherein the hand-held ~~wireless~~ device is a cellular telephone using a Code Division Multiple Access ("CDMA") protocol.

38) (currently amended) The system of claim 34, wherein the hand-held ~~wireless~~ device is a cellular telephone using a CDMA2000 protocol.

39) (currently amended) The system of claim 34, wherein the hand-held ~~wireless~~ device is a cellular telephone using a Universal Mobile Telecommunications System ("UMTS") protocol.

40) (currently amended) The system of claim 34, wherein the hand-held ~~wireless~~ device is a cellular telephone using a Time Division Multiple Access ("TDMA") protocol.

41) (cancelled)

42) (currently amended) An article of manufacture, ~~including a computer readable medium,~~ for storing one or more software components, comprising:

a) a routing router software component to translate between a ~~wide area~~ cellular network address and a wireless local area network address;

b) a short-range radio software component to provide a short-range radio signal in a wireless local area network;

c) a cellular software component to provide a communication signal ~~in over a one or more cellular network~~ cellular networks; and;

d) an interface software component to add to allow ~~to allow~~ a network service software component ~~to be added that provides one or more network services to the wireless local area network using the communication signal from the cellular network.~~

43) (cancelled)

44) (currently amended) The article of manufacture of claim 42, wherein the network service software component is a pairing management software component to determine whether a first wireless device, which is coupled connected ~~is coupled~~ to the wireless local area network, is responsive to a signal from a ~~processing device in~~ connected to the one or more cellular networks ~~cellular network~~.

45) (previously presented) The article of manufacture of claim 42, wherein the network service software component is a virtual private network software component to establish a secure link.

46) (previously presented) The article of manufacture of claim 42, wherein the network service software component is a firewall software component.

47) (previously presented) The article of manufacture of claim 42, wherein the network service software component is a statistics software component to collect usage information of the wireless local area network.

48) (previously presented) The article of manufacture of claim 42, wherein the network service software component is a link optimization software component to convert an IP packet from a first wireless device in the wireless local area network to an optimized cellular protocol packet.

49) (previously presented) The article of manufacture of claim 42, wherein the network service software component is a reverse firewall software component to drop a packet from a first wireless device in the wireless local area network.

50) (previously presented) The article of manufacture of claim 42, wherein the network service software component is a reverse firewall software component to drop a packet from a first application software component on a first wireless device in the wireless local area network.

51) (previously presented) The article of manufacture of claim 42, wherein the network service software component is a flashing software component to provide a flash image to a first wireless device in the wireless local area network.

52) (previously presented) The article of manufacture of claim 42, wherein the network service software component is a message software component to provide a message between a first wireless device and a second wireless device in the wireless local area network.

53) (previously presented) The article of manufacture of claim 42, wherein the network service software component is a service level enforcement software component to limit an amount of packets transferred from a first wireless device in the wireless local area network to the cellular network during a period of time.

54) (currently amended) A system for enabling communication between one or more devices connected to one or more cellular networks and one or more devices connected to a wireless local area network, comprising:

a) a managing processing device in a first wide area network; connected to the one or more cellular networks for managing, collecting and configuring data in the wireless local area network;

b) a hand-held device connected to the managing processing device and connected to the wireless local area network, comprising:

b.1. a router software component to transfer a plurality of packets between one or more devices connected to the one or more cellular networks and the one or more devices connected to the wireless local area network by the cellular signals and the short-range radio signals; and

b.2. an interface software component to add a first network service software component that provides one or more network services to the wireless local area network, the first network service software component loaded into the hand-held device by the managing processing device, including a managing software

component, sending the cellular signals over the one or more cellular networks;

and

~~a hand-held device, coupled to the managing processing device and in a wireless local area network, having a routing software component to transfer a plurality of packets between the first wide area network and the wireless local area network using short range radio signals and an interface software component to add a first network service software component that provides a network service to the wireless local area network;~~

~~—wherein the first network service software component is loaded onto the hand-held device from the managing processing device using cellular signals from the first wide area network; and;~~

c) ~~a device, coupled~~ connected to the hand-held device and ~~in~~ connected to the wireless the local area network, to transfer a first packet in the plurality of packets to the hand-held device;

~~—wherein the managing processing device has a managing software component to enable the loaded first network service software component.~~

55-57) (cancelled)

58) (currently amended) The system of claim 54, wherein the ~~routing~~ router software component tunnels the plurality of packets to the managing processing device and wherein the managing processing device processes the plurality of packets.

59) (currently amended) The system of claim 54, wherein the ~~routing~~ router software component maintains a first IP session link with ~~the a first wide-area~~ cellular network in the one or more cellular networks and a second IP session link with a second ~~wide-area~~ cellular network in the one or more cellular networks.

60) (currently amended) The system of claim 54, wherein the ~~routing~~ router software component maintains a first IP session link with ~~the a first wide-area~~ cellular network in the one or more cellular networks responsive to ~~the an~~ an amount of IP packets received in the plurality of packets.

61) (currently amended) The system of claim 54, wherein the ~~routing~~ router software component initiates a first IP session link with ~~the a first wide-area~~ cellular network in the one or more cellular networks responsive to a signal from the managing processing device.

62-64) (cancelled)